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SOURCE

Documentary as indicated. (Information specifically requested.)

RECENTLY FUBLISHED RESEARCH OF THE CENTRAL MALAHIAL INSTITUTE, ACADEMY OF MEDICAL SCIENCES, USSR

"Bisulfite Compounds. Action of Fhemylhydrezine and Sodium Bisulfite on Naphthol.Azo Dyes. Action of Sodium Bisulfite on Dyes Derived from 2-maphthol-4-sulfonic Acid," V. N. Ufimtsev, Cont Malariel Inst, Acad Med Sci

"Zhurnal Obshchay Khimii" Vol 16, 1946, pp 1845-59

The reaction of Panish, in the presence of Manson with 1,2- and 1,4-PhN2 10H6CH bisulfite adducts yields K salts of 1-phonylhydrazono-2-2-phonylhydrazino-1,2-dihydro-2-naphthelenesulfonic scie (I) and 1-phonylhydrazono-4-phonylhydrazino-1,4-dihydro-4-naphthelenesulfonic scid (II), respectively; the SO₂H group in these compounds is labile to alkaline reagents. The reaction of each bisulfite adduct is described. I is a yellow crystal which, recrystallized from H₂O, ECOH, Ball, and saturated KOAC, is intensely yellow, insoluble in CoH6 and Et₂O, soluble in 50% ECOH, sparingly soluble in H₂O and alcohol; by heating in 50% EtOH in the presence of an alkaline, it breaks down into 1-phonylazo-2-phonylhydrazanonaphthalene and alkaline sulfite. Further reaction is described. II, almost coloriess needles, boiled with 50% EtOH in the presence of KOH (ave 1-phonylazo-4-chenylhydrazincaphthalene, red-brown prizms, insoluble in H₂O, soluble in CoH6 and Et₂O, difficulty soluble in EOH, which on oxidation with ManO₂ in ECI gave

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1,4-bis(phenylazo)-naphthalene. The applicability of Bucherer's rule to the reactions of WaliSO, with the coupling products of 2,4-KCC₁CH₆SO₂H (III) with diazotized PhNH₂, sulfanilic acid, p-phenetidine, and naphthionic acid was tested. Reaction, resulting in 91% 1-amino-2-naphthol-4-sulfonic acid, is described. Qualitative experiments with the azo compounds mentioned showed ease of cleavage at the azo group under the influence of hot NaHSO₂ solutions. The sulfanilic acid derivative was the only one subjected to deteiled study because of the relative ease of purifications involved. One of the striking characteristics of the reaction is the rapid decolorization of the hot solution with NaHSO₂. The reduction also proceeds in the cold but is much slower than in boiling solutions. Slowness of the crystal-lization in the cold shows that the primary reduction product is the sulfoamino acid, which then breaks down into the anim acid.

"Morphology of the Blood Clot and Chemical Changes of Blood Figment in Various Stages of Digestion of Femala Anopheles Maculipenn's MEM," L. V. Yagushinskaya, Cent Malarial Inst

"Med Parasitol 1 Parasitar Bolesni" Vol 14, No 2, 1945, pp 38-45

Immediately upon arrival in the mosquito stome h, the blood separates into the formed components and the places, with the latter distributed on the periphery of the wide section of the stomech; because of rapid water absorption, plasma is thickened repidly, then becomes resorbed under the influence of gastric onspaces. Fibrin precipitates only one hour after feeding and can no longer be seen at the end of the gastric digestion. Erythrocytes rapidly "ball-up" and remain so in the first half of the digestive cycle, then undergo rapid hemolysis. Blood pigment retains its color for many hours and at the end of digestion the mosquito stomach content is that of dark granules of hematin.

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